

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,338

DATE: 01/15/2002
TIME: 17:57:36

Input Set : D:\Pa_00392.rpt
Output Set: N:\CRF3\01152002\J020338.raw

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p.5

1 <110> APPLICANT: Andersen, Scott E.
2 Hammond-Kosack, Kim
3 Urban, Martin
5 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
6 Plants
8 <130> FILE REFERENCE: 38-21(52272)B
10 <140> CURRENT APPLICATION NUMBER: US/10/020,338
10 <141> CURRENT FILING DATE: 2001-12-12
10 <150> PRIOR APPLICATION NUMBER: US 60/255,575
12 <151> PRIOR FILING DATE: 2000-12-14
14 <160> NUMBER OF SEQ ID NOS: 25642
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 569
18 <212> TYPE: DNA
19 <213> ORGANISM: Triticum aestivum
21 <220> FEATURE:
23 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G9
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29 cactagatcc tcgatggctc gcgtggcact ggtagccgtg ttccgctgc tcgcggcact 120
31 ggcggtggcg gagatggcgt ccggggcggt gacctgcggc gacgtgacgt ccgccgtcgc 180
33 gccgtgcatg tctacgcga gggggcaagc gtcggcaccc tcggggcggt gctgcagcgg 240
35 ggtgaggacc ctgaacgcca aggcgtccac cccggccgac cggaaggcgg cgtgcaactg 300
37 cctcaagaac ctggcggggt cgggcatcag catgggtaac gccgccaaca tccccggcaa 360
39 atgcggcgctc tccgtctctt tccccatcaa caccaaaacc aactgcaaca accttacta 420
41 agttatctac cagcatcatc atcacaccag gctagctagc ccactcgggtg tctactgttg 480
43 ctgctctctg cgtgtgttcg ttgtgtttt ctccatgtgt tcgacctcca tctgttgccg 540
45 ttaatacaga tcgagcagat tactgatcg 569
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 531
50 <212> TYPE: DNA
51 <213> ORGANISM: Triticum aestivum
53 <220> FEATURE:
55 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H10
57 <400> SEQUENCE: 2
59 cggacgcctg ggcggacgca tgggctgcac ttggcccctg aaaaaaagaa aggactgtgt 60
61 caaccacgac cgccgacttc atgagcgggt ggagctcaag tctgaagagt atgacctttg 120
63 agaccctctt gcccaaggat gaggtggcc tttatcgac ctttgagtct atggaaggga 180
65 cggcttgtgt tctaccagct ggccgagtgc caggacctga aggagccaa ccgacctttt 240
67 acttatgata cgccttctac acagagttag gtacacgcag acgacaacga cgacgactca 300
69 agacgaccgc tgtatcgact gcgaaccggt ataaggcggg aggccagccc cttgcctgcc 360
71 tctggctcaa taaagagggt ttctctgctg tatgtaccgg gagataggac tgtggggcca 420
73 tgaagcacct tgcgtgttac ccgtcgggga acaacgacac tgtcacactc actcaagctc 480
75 atcctagccg tttgtgttct acccgccgct gcacgagaca tccagccgtg t 531
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 562
80 <212> TYPE: DNA

ENTERED

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81 <213> ORGANISM: Triticum aestivum

83 <220> FEATURE:

84 <221> NAME/KEY: unsure

85 <222> LOCATION: (1)..(562)

86 <223> OTHER INFORMATION: unsure at all n locations

87 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H11

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91 ggtcttagtg taccttactt ccgcgcacag aagcttaact gtggatatcg gnaccatgat 60
 93 tataaattgc tccatggagc tcgtactatt aattgatggc tcacgggtag caacagcgga 120
 95 atattcttag ttgaaatcag tttgatgttc ctcaggaatg aattccactc gttattcaat 180
 97 accactataa gaaaatagtg aaatgctggc cgtctgcaaa agtactggtc cgtctcgcg 240
 99 tctcacccca aaaacagagg aggggagcag ggagctcctc cctcacactt gtcggctcca 300
 101 aggagccccg ccaccatgca tggtagaaga ggagcgcgga gctccgcccgc cgcgtaaggc 360
 103 aaaccaaggc tgcaatgttt gaattattata ctcagtcagt tgctcgacta cttacagtcc 420
 105 tattacttga gacttaatac tcggtcagct gccgtgtaca ttgttctgac ataaatgcc 480
 107 ccatgtctat gcgcaagtca gcaagaactt accatctaaa aagatgtcta attagtgtgg 540
 109 tacatgcttc agtactgcaa gt 562

112 <210> SEQ ID NO: 4

113 <211> LENGTH: 450

114 <212> TYPE: DNA

115 <213> ORGANISM: Triticum aestivum

117 <220> FEATURE:

118 <221> NAME/KEY: unsure

119 <222> LOCATION: (1)..(450)

120 <223> OTHER INFORMATION: unsure at all n locations

121 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H3

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 127 tgacacaaga cactgacatc taaagcggta tgattctggg acccaaaagg tgatgatgaa 120
 129 ccgataataa tagcaaaata tgacacaagt gcgccagaaa ttccacagct taaaccttga 180
 131 aagcccctgc tgttcctcct tcctcttgcc ttctcgaatt tcctgccctt tgagcggaca 240
 133 tatggcttgg tgtggctgtg tggcactcct ggagctttgc caaagtgcct aacagcttcc 300
 135 ctggcggttct tggggccctt caggagaagc gtgttctgac caagcggagc acgaaggcg 360
 137 agctggtcaa aggtaaggca ctcaccaccg gtattgacaa tcctggccct cgccgtctaa 420
 139 tagaacctga gcgcggacac cttcattgcc 450

142 <210> SEQ ID NO: 5

143 <211> LENGTH: 223

144 <212> TYPE: DNA

145 <213> ORGANISM: Triticum aestivum

147 <220> FEATURE:

149 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H5

151 <400> SEQUENCE: 5

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 155 gagctcttgc tccaccgccc caaccatggc gaccaggtc agcaagaaga agaagtttgt 120
 157 gagcgtatgg gttttgtacg ccgagctgaa cgagatgctg acccgggagc ttgccgagga 180
 159 cggctgctcc ggcgtggtgg tacacgtgac gccgatgcgc acg 223

162 <210> SEQ ID NO: 6

163 <211> LENGTH: 156

164 <212> TYPE: DNA

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165 <213> ORGANISM: Triticum aestivum
167 <220> FEATURE:
169 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H6
171 <400> SEQUENCE: 6
173 cccgtcgagc aaaagaaggc tcttccaact ccataaagtg gaaagtgggt cgccataaat    60
175 cccaaggcta ccgtgccagg atcgaaacagc gtaaagcctt cgagcctgga taactagcac    120
177 ggcatttctg tcctcagcta acaacgagtt acacgt                                156
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181 <211> LENGTH: 571
182 <212> TYPE: DNA
183 <213> ORGANISM: Triticum aestivum
185 <220> FEATURE:
187 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H7
189 <400> SEQUENCE: 7
191 gggacgacga ggcgcacctg ccaggtctac acgcgcgcgc gcctccagga ccctccgccc    60
193 ctgcgcgcgc cctccaggat cctccgcccc tcgcgcgcctc cgtcctccac tgcagcagga    120
195 agcagattga agctatggcc ttgggttaata agcttggttaa tctgctcaag aaggccacta    180
197 gctcgaatcc gactctctat caggcaataa gatgcatgtc atcatcgaag ctcttcggtg    240
199 gagggctttc cttaaacaca gacgagggca gtctgagaga tgccttttcc cattatggag    300
201 aaattattga tgctaagatt atcgtagatc gcgacactgg aaggtctaga ggttttggct    360
203 ttataactta tgcagcagaa gaacaggctt catctgccat catggccttg gacggaaagg    420
205 atctacatgg acgcaacctc cgggttagtg ctgccactga gaggaccgct ggcttccgta    480
207 atggtgctgg ttatggagggt ggtggtggcg gctttggagg aggaggatat ggcggtggtg    540
209 gctatggagg aggtggttat ggtggcaaca g                                571
212 <210> SEQ ID NO: 8
213 <211> LENGTH: 593
214 <212> TYPE: DNA
215 <213> ORGANISM: Triticum aestivum
217 <220> FEATURE:
219 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H9
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225 taccgcggcc ggaaccacac tcgatcgcac cctcccccac ttacaccaca aatccatcca    120
227 tcctottcct ctcccatctt taaagctgca tcccatctcc cctcaccgcc gcggcgagcc    180
229 agcgacgtct cgcctcctcc caccgcggcc gccgtgcgcg ccatagacac aagagccgac    240
231 agctagatcg cgaaatcagg atatgggtcg cggcaagggt cagctgaagc ggatagagaa    300
233 caagataaat cggcagggtga cttctccaa gcgcgcgaac ggcctcctga agaaggcgca    360
235 cgagatctcc gtcctctgtg acgcggaggt cgccgtcatc gtcttctccc ccaaaggcaa    420
237 gctctatgag tacgccaccg actccagcat ggacaaaatt cttgaacggt atgagcgcta    480
239 ctottatgct gaaaaggctc ttatttcagc tgaatctgaa agtgagggaa attggtgccaa    540
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245 <211> LENGTH: 532
246 <212> TYPE: DNA
247 <213> ORGANISM: Triticum aestivum
249 <220> FEATURE:
250 <221> NAME/KEY: unsure
251 <222> LOCATION: (1)..(532)
252 <223> OTHER INFORMATION: unsure at all n locations

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253 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G1

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 259 aaagaaatcc aggtagatgc attcgtttggc cggatgaatg ttgatgaaag cttggtgcac 120
 261 tgctcatcga cacctagcga tgaagaaatt ccagtggatg cattctgcag ccagatgaat 180
 263 gagcttcctc ctatcagtga ctatgtttgc acaactgaca aactctcact ggatgatata 240
 265 tcaaggctgg cagatatgtt tcctgtcaat gactttgtcg acacaacagg tgagccgcct 300
 267 ggtgacgact acatcgggct ggcagacatc agtcatctac cgatgccaat gttcgagttg 360
 269 gatacagaac ttaattggga aggttttcgac tttgcttcga tggaaactga actagagaga 420
 271 ctttaggcct cgacaacatt gaggttttca tctttcggac agatgttagg gtgagtttgt 480
 273 gatcaggaga tgtgttcac tccaattttg tttgaaattg ttcagttcca cc 532

276 <210> SEQ ID NO: 10

277 <211> LENGTH: 511

278 <212> TYPE: DNA

279 <213> ORGANISM: Triticum aestivum

281 <220> FEATURE:

283 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G10

285 <400> SEQUENCE: 10

287 ggaagcaggc aatttggctg cggagcagaa ttacaaacac agtgctctgt ctgaaggaag 60
 289 gaaaaaacag tttgaaatca cagcatctcc cgcactctgaa ttatgtacag aatttgaccc 120
 291 ccaattcctc ctctctctct cttcagcaac tactagtagt tgggtgatgt acaacgaaga 180
 293 tgatgaagaa gaaaaagcaa acagccgcgc ccagtgaacc aaccaatcgg aaccaattgg 240
 295 aagcctaacc ctactcctaa tccacgtcct cgatcctgat gttgaccggc tctcctctct 300
 297 gctcctctc ctgctgcggc ctctcgcctc ctgcgcagct cagcatgctg accagcaccg 360
 299 cgccctggg cccgcgcctc tcgcgcgcgc cgttcggctg ctctcggcc gccggctccg 420
 301 ccttggggag ctgcgtggcg cagacggggc agctcccgct cagcggccgc caccgttcca 480
 303 ggcaactccc gtggaagcgg tgcccgcacg g 511

306 <210> SEQ ID NO: 11

307 <211> LENGTH: 554

308 <212> TYPE: DNA

309 <213> ORGANISM: Triticum aestivum

311 <220> FEATURE:

312 <221> NAME/KEY: unsure

313 <222> LOCATION: (1)..(554)

314 <223> OTHER INFORMATION: unsure at all n locations

315 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G11

317 <400> SEQUENCE: 11

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 321 caccaagctc gcggcgatcc tgatcctcca ggccgtcctg gtcatgggag tctctcgcga 120
 323 cgtcaacgcc gacttcttcc ccaagtgtcg caacaactgc aggtccttct cgggggtcga 180
 325 cgtctgcgac gacgcccacc ccaagtgtcc caagggtgc tcggcgtgcc gcgtggtgtc 240
 327 gacgagcccc gaatgtggcg ctgcgcggat atgaaatcca cgtcgacgg cacctgcggt 300
 329 ggaccctgca agaagtactg atcggttcat gccggcatat gatatgttcc gcctaaaatt 360
 331 aaataaaagc tcggacgaga tgagcagcgt catcgtgcct atgcgtgtgt gtgtgaccaa 420
 333 caaatatgta taccagtatg tcgtgtcttc gtcgtgtgtg tttctctctc gagaaaaagt 480
 335 tgggtgttgc ttgtgttcag ctatccggaa tatcctccgt gaataaacac ctgtagtgtat 540
 337 tgtgcgtggc tgcc 554

340 <210> SEQ ID NO: 12

341 <211> LENGTH: 556

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342 <212> TYPE: DNA
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345 <220> FEATURE:
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353 gtcgacacct cagagacagg gcttccacga ctgggacaag ctcatactca gggcagcagc 120
355 tgaccgggag aaaacggcga cggcctacaa gtcggagaag aggaaggaga tggaggcgga 180
357 ggggtacaag atcctgggca actccggcga ccagtggagc gacctgctgg gctactccat 240
359 gagegcccgc tccttcaagc tccccaaacc gatgtactac gtcccctgac acaacagagc 300
361 agacatgatt ggtgggcata gtgtgagaaa tgcagtgttt atttatctgt tgcgttcgtc 360
363 atgccggccc gattgactga accctgtact gactgactga gtgtgcaaaa caagactgag 420
365 aatggaattg agaaggaaga atttataacc tgcaaattat tcgctgactt catgtagcat 480
367 acttgcatgt gacttgtgag cttgattgtg taatggatga gatgctaaat gctgttgctc 540
369 tgaaatgaaa tggttga 556
372 <210> SEQ ID NO: 13
373 <211> LENGTH: 216
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375 <213> ORGANISM: Triticum aestivum
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379 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G2
381 <400> SEQUENCE: 13
383 atccggggaa cctcaccaac gatacctaac ggactgttag gaaggggttca acgtggtagg 60
385 agtacttccc aggattggca agggtaggag tgtttaagag ggcagtttgt gcccgaagccg 120
387 agagatgagg aatagatggg ctgatctgct agaacaagggt gatcgacgat catatcagca 180
389 tggataagtt aacgtttgat caccgacgat gtgatt 216
392 <210> SEQ ID NO: 14
393 <211> LENGTH: 412
394 <212> TYPE: DNA
395 <213> ORGANISM: Triticum aestivum
397 <220> FEATURE:
399 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G3
401 <400> SEQUENCE: 14
403 gcagaacaca cagagctcct accaaaccaa caagcctcct ccaacccaac aacotogaat 60
405 tgtcttgctg cggaggaaac tgcggatgcg gcaccgctg caagtgcggc aacggctgcg 120
407 gtggctgcaa catgtacccc gaggttgagg ccgcccggcg caccctcctc ttctccgcca 180
409 ctgccactca caaggggagc tccggcggca tggagatggc ggccgagAAC ggcggtgctg 240
411 gctgcaccca gtgcaagtgc ggcaccagct gcggctgctc ctgctgcagc tgctaaatca 300
413 ttgatcatgc atgcgccggg tgcacatcat gtatgatcta cgtatccatg tactaccatg 360
415 taatgccacc taatcaaggg tctttgaatg tatagagagt atacacacct ga 412
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419 <211> LENGTH: 432
420 <212> TYPE: DNA
421 <213> ORGANISM: Triticum aestivum
423 <220> FEATURE:
425 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G5
427 <400> SEQUENCE: 15
429 tccacctcca accacgccgg tggccacaca cagacacact ttccgccggg ctccaggtgag 60
431 gtgttccaat ggcggcctcg ccgacggggg tcgctgccc ggtctaccgg tggccgagcg 120

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:2045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:2165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:2233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78

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L:2301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:2401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
L:2525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86